

# (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property **Organization**

International Bureau



# **06** JUL 2005

**PCT** 

(43) International Publication Date 29 July 2004 (29.07.2004)

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(51) International Patent Classification7:

G10H 7/00

(21) International Application Number:

PCT/US2003/025813

(22) International Filing Date: 8 August 2003 (08.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 10/337,753

7 January 2003 (07.01.2003) US

(71) Applicant (for all designated States except US): MAD-WAVES LTD. [GB/GB]; Vicarage House, 58-60 Kensington Church Street, London W840B (GB).

(72) Inventors; and

WO 2004/064036

(75) Inventors/Applicants (for US only): GEORGES, Alain [FR/FR]; 523 Chemin Du Malvan, F-06570 Saint Paul de

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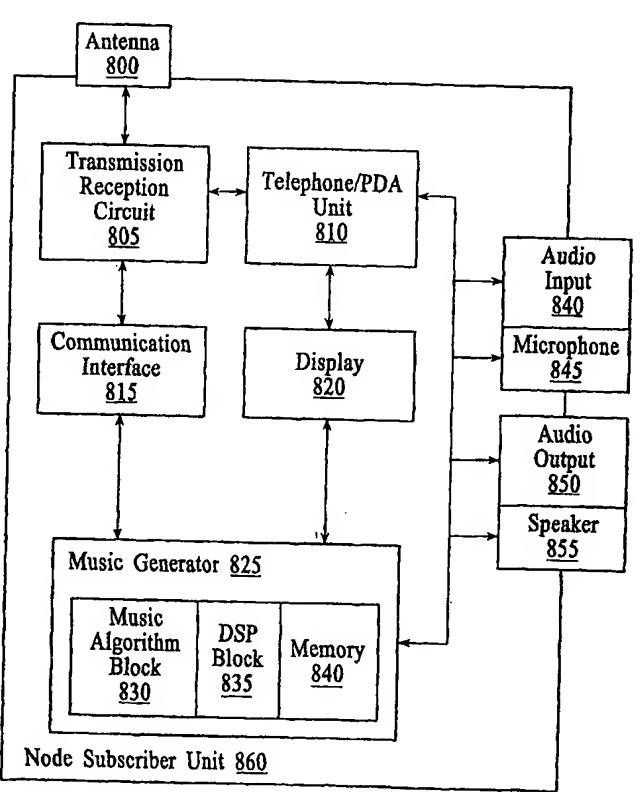
- (74) Agent: LOUDERMILK, Alan, R.; Loudermilk + Associates, P.O. Box 3607, Los Altos, CA 94024-0607 (US).
- (81) Designated States (national): AU, BR, CA, CH, CN, IL, IN, JP, KR, MX, NO, NZ, PL, RU, SE, SG, US.
- (84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEMS AND METHODS FOR CREATING, MODIFYING, INTERACTING WITH AND PLAYING MUSICAL **COMPOSITIONS** 



Node/Subscriber Unit Functional Blocks

(57) Abstract: Systems and methods for creating, modifying, interacting with and playing music are provided, particularly systems and methods employing a top-down process, where the user is provided with a musical composition that may be modified and interacted with and played and/or stored (for later play). system preferably is provided in a handheld form factor (860), and a graphical display is provided to display status information, graphical representations of musical lanes or components which preferably vary in shape as musical parameters and the like are changed for particular instruments or musical components such as a microphone input (845) or audio samples. In addition, the present invention makes use of node-based music generation as part of a system and method to broadcast and receive music data files, which are then used to generate and play music. The present invention is characterized by the broadcast of relatively small data files that contain various parameters sufficient to describe the music to the node/subscriber music generator.



International application No.

PCT/US03/25813

IPC(7) US CL	ASSIFICATION OF SUBJECT MATTER			
1 00 CT	: G10H 7/00			
	: 84/645			
B. FIE	to International Patent Classification (IPC) or to both	national cla	assification and IPC	
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Α	US 2002/0046899 A1 (MIZUNO et al) 25 April 20	002 (25.04.	2002), see Abstract.	1-6
Α				10
• •	US 2002/0023529 A1 (KURAKAKE et al) 28 Feb.	ruary 2002	(28.02.2002), see Abstract.	1-6
A,P	US 2003/0013497 A1 (YAMAKI et al) 16 January 2003 (16.01.2003), see Abstract.			
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Α	US 2003/0176206 A1 (TANIGUCHI et al) 18 Sept	tember 2009	3 (18 00 2002) 200 45-4	
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#### Published:

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(57) Abstract:

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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provided, particularly systems and methods employing

a top-down process, where the user is provided with a

musical composition that may be modified and interacted

system preferably is provided in a handheld form factor

(860), and a graphical display is provided to display

status information, graphical representations of musical

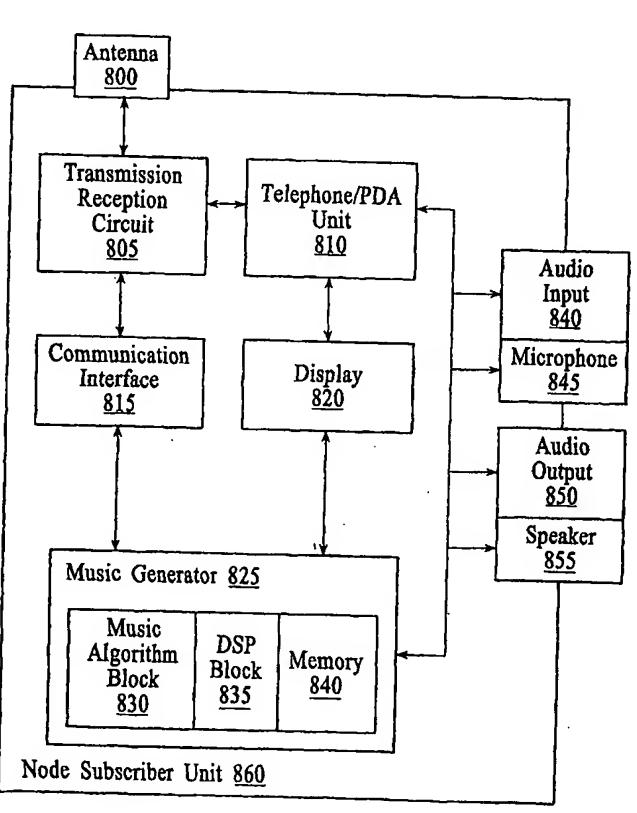
lanes or components which preferably vary in shape as

musical parameters and the like are changed for particular

with and played and/or stored (for later play).

Systems and methods for creating,

(54) Title: SYSTEMS AND METHODS FOR CREATING, MODIFYING, INTERACTING WITH AND PLAYING MUSICAL COMPOSITIONS



instruments or musical components such as a microphone input (845) or audio samples. In addition, the present invention makes use of node-based music generation as part of a system and method to broadcast and receive music data files, which are then used to generate and play music. The present invention is characterized by the broadcast of relatively small data files that contain various parameters sufficient to describe the music to the node/subscriber music generator.

Node/Subscriber Unit Functional Blocks

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/25813

A. CL	ASSIFICATION OF SUBJECT MATTER						
IPC(7)	: G10H 7/00						
US CL	: 84/645						
B. FIE	to International Patent Classification (IPC) or to both	national	classification and IPC				
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Minimum documentation searched (classification system followed by classification symbols) U.S.: 84/645							
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C. DOC	CUMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where	annronr	ate of the relevant				
X	US 2002/0033090 A1 (TWAMOTO et al) 21 Marc	h 2002 (	11 02 2002)	Relevant to claim No.			
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Α	US 2002/0046899 A1 (MIZUNO et al) 25 April 20	002 (25.0	14.2002) see Abstract				
				1-6			
Α	US 2002/0023529 A1 (KURAKAKE et al) 28 Feb.	ruary 20(	02 (28.02.2002), see Abstract	1-6			
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Date of the actual completion of the international search		Date of mailing of the international search report					
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Commissioner for Patents		Jeffrey	Donels				
P.O. Box 1450 Alexandria, Virginia 22313-1450			one No. (703) 308-1782				
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rm PCT/ISA/210 (second sheet) (July 1998)							
	( (July 1230)						

### PATENT COOPERATION TREATY

To:



From the INTERNATA

LBUREAU

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

LOUDERMILK, Alan, R. Loudermilk + Associates P.O. Box 3607 Los Altos, CA 94024-0607 **ETATS-UNIS D'AMERIQUE** 

**OS JUL 2005** 

Date of mailing (day/month/year) 29 July 2004 (29.07.2004) Applicant's or agent's file reference DBT004.CIP1. **IMPORTANT NOTICE** International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US2003/025813 08 August 2003 (08.08.2003) 07 January 2003 (07.01.2003) **Applicant** MADWAVES LTD. et al

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

AU, CH, CN, EP, JP, KR, RU, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

The following designated Offices have waived the requirement for such a communication at this time:

BR, CA, IL, IN, MX, NO, NZ, PL, SE, SG

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

- 3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 29 July 2004 (29.07.2004) under No. WO 2004/064036
- 4. TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see PCT Gazette No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the PCT Newsletter, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the PCT Gazette, the PCT Newsletter and the PCT Applicant's Guide, Volume II, National Chapters, all available from WIPO's Internet site, at http://www.wipo.int/pct/en/index.html.

For filing a demand for international preliminary examination, see the PCT Applicant's Guide, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Athina Nickitas-Etienne

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 89 95

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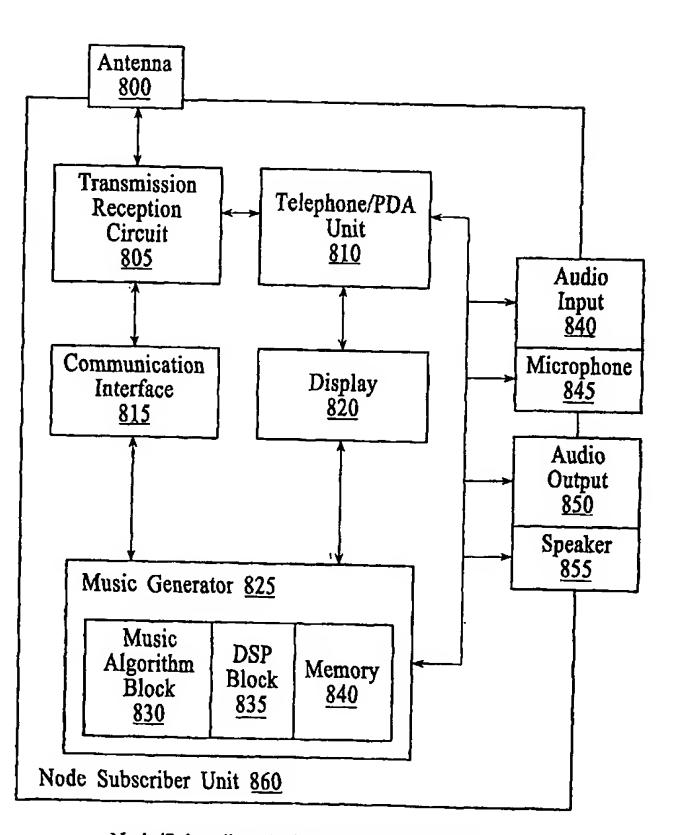
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A. CLA	SSIFICATION OF SUBJECT MATTER					
IPC(7)	: G10H 7/00					
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According to	International Patent Classification (IPC) or to both	national classification and IPC				
B. FIEI	LDS SEARCHED					
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
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$\mathbf{X}$	US 2002/0033090 A1 (IWAMOTO et al) 21 March	2002 (21.03.2002) see Abstract Figure	Relevant to claim No.			
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	Stop PCT, Attn: ISA/US	Authorized officer				
Comr	missioner for Patents	Jeffrey Donels				
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Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230  Telephone No. (703) 308-1782						
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